

Online DBs for the '04 Beam Tests and the Slice Test



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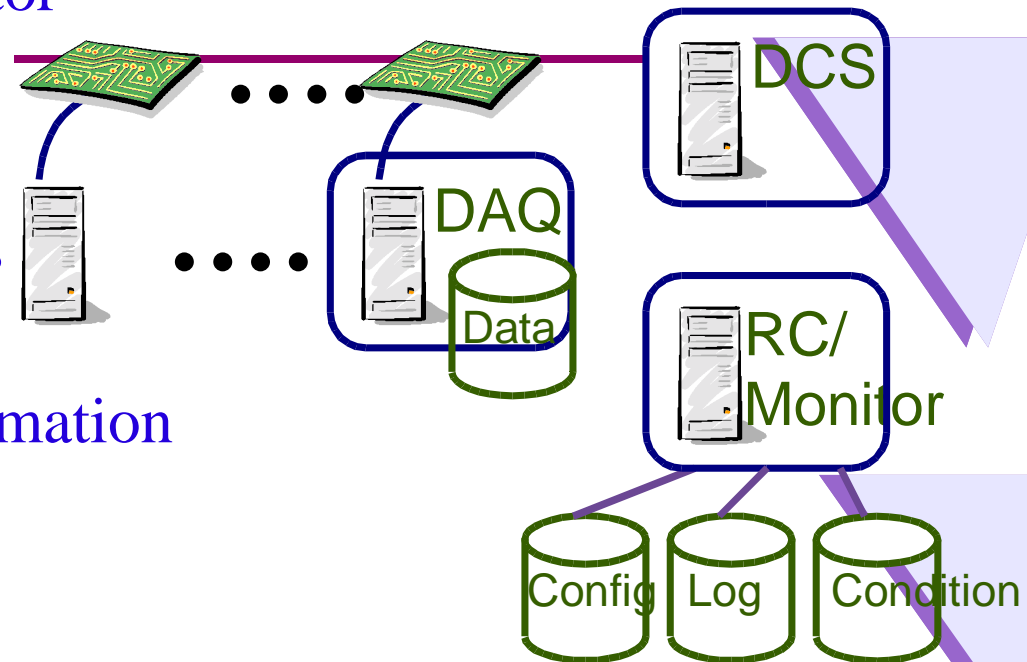
CD/CEPA/OAA

DB meeting, 2003/11/14

DB mtg., 2003/11/14

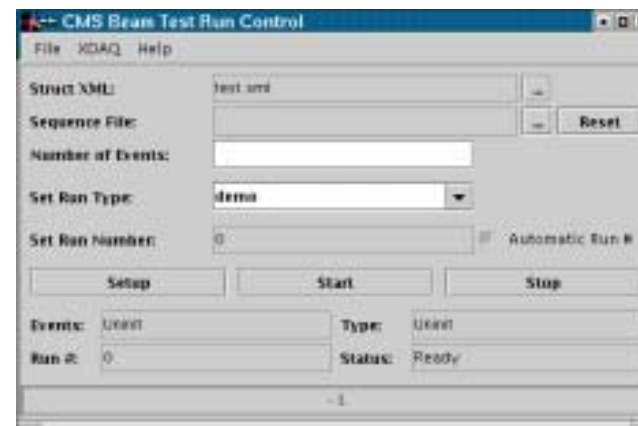
DAQ Components

- DAQ
 - ◆ Readout detector data
- DCS
 - ◆ Control/monitor detector
- Run Control
 - ◆ Start/stop runs
 - ◆ Configure components
- Monitor
 - ◆ Gather/distribute information
 - ◆ Logging information



HCAL Beam Test '03

- Mostly, custom made software using CMS standard DAQ framework
- Configuration DB
 - ◆ MySQL for run control
 - ◆ Text file for DCS
- Condition DB
 - ◆ MySQL as run DB
 - ◆ Slow control data in the main data stream (ROOT)
- Log DB
 - ◆ Text file on a run control PC

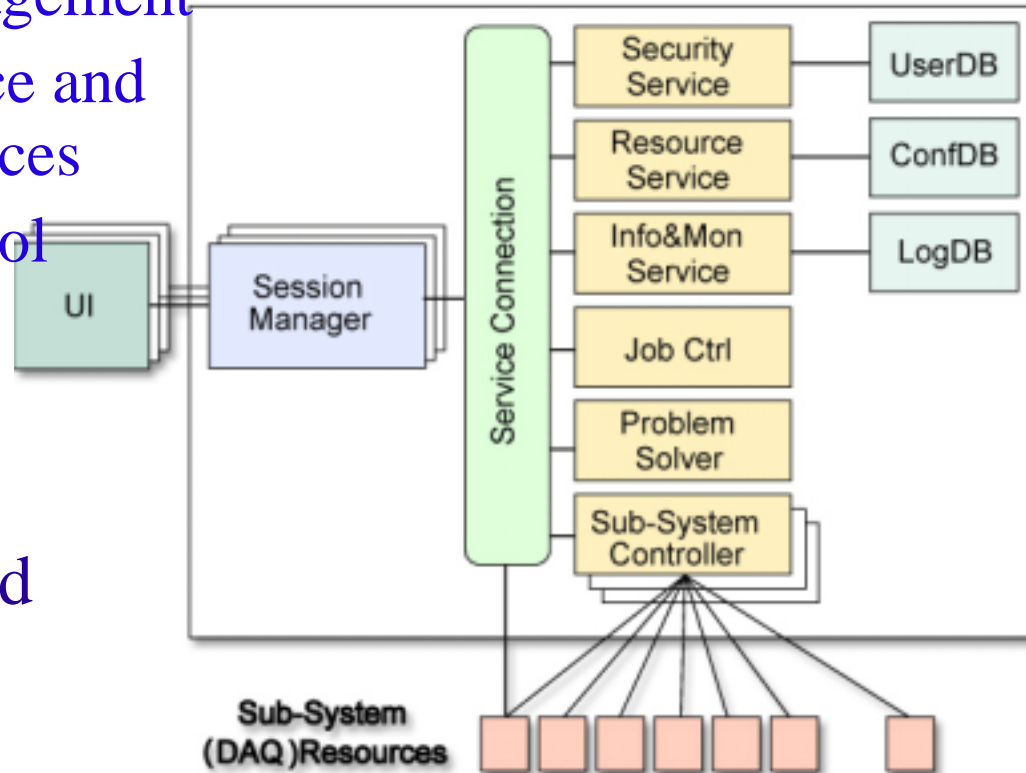


DAQ Activities in '04

- Beam tests, May. - Aug.
 - HCAL, EMU
 - Focus on taking data
 - Simple and robust DAQ
- US-CMS slice test, Sep. - Dec.
 - HCAL, EMU, Trigger, DAQ, (Pixel?)
 - Focus on integration
 - Use of the final DAQ software as much as possible

RCMS - Run Control and Monitor System

- Run control for the CMS (Legnaro)
- Most of the functionalities are implemented
 - UI, Session management
 - Security, Resource and Information services
 - Sub-system control
- MySQL or eXist
- Beta version was released in Oct.'03
- Used in Tracker and Muon beam tests



Databases in '04

- Beam tests
 - Configuration database (EMU)
 - Common configuration database
 - Better error log handling (HCAL)
 - Migration to the RCMS
- Slice test
 - Integration of the DCS
 - Configuration, Condition(+Log) database

RCMS Future Plan

- Integration of missing components
 - ◆ Problem solver, Job control ...
- OGSA evaluation
- ORACLE-IMS
- Interfacing to other DAQ components
 - ◆ Other databases
 - ◆ Filter farm
 - ◆ Trigger
 - ◆ Sub-detectors

More Information...

- CPT Week

<http://agenda.cern.ch/fullAgenda.php?ida=a035751>

- DAQ meeting

- Online software working group

- ATLAS-CMS RCMS meeting

<http://agenda.cern.ch/fullAgenda.php?ida=a036273>

- US-CMS slice test DAQ page

<http://home.fnal.gov/~ichiro/slicetest/>

- XDAQ framework

<http://xdaq.web.cern.ch/xdaq/>